

Listing of Claims

1. - 34. (cancelled)

35. (new) A method for making a screen assembly for a vibratory separator the method comprising

- making a frame support for a screen assembly for a vibratory separator,

- moving with mechanical movement apparatus the frame support to cleaning apparatus,

- cleaning the frame support with the cleaning apparatus,

- moving with mechanical movement apparatus the frame support to heating apparatus,

- heating the frame support with the heating apparatus,

- moving the heated frame support to coating apparatus with the mechanical movement apparatus,

- coating the frame support in the coating apparatus with protective material,

- moving the frame support away from the coating apparatus with the mechanical movement apparatus,

- allowing the coated frame support to cool so that the protective material sets,

- combining screening material with the frame support, the screening material comprising a first layer of screening material and a second layer of screening material, the first layer of screening material comprising material between 32 mesh to 400 mesh and the second layer of screening material comprising material between 24 mesh to 500 mesh,

- connecting a grid to the frame support, wherein the grid is from the group consisting of coarse mesh layer, perforated plate, and strip support,

- placing the first layer of screening material below a glue application apparatus for applying heated initially flowable hot melt glue, the first layer of screening material made of metal, and comprising a first metal mesh through which liquid in the fluid is passable and having a first metal mesh pattern,

applying with the glue apparatus an amount of heated hot melt glue in a pattern to the top surface of the first layer of screening material,

positioning a second layer of screening material adjacent and in contact with the first layer to which glue has been applied gluing together the first layer and the second layer, the second layer of screening material made of metal and comprising a second metal mesh through which liquid in the fluid is passable, and

wherein the pattern of applied glue is different from the first metal mesh pattern.

1 36. (new) The method of claim 35 wherein the protective material is epoxy.

1 37. (new) The method of claim 35 wherein the cleaning apparatus is sand
2 blasting apparatus or liquid cleaning apparatus.

1 38. (new) The method of claim 35 wherein the frame support is made of
2 tubular members.

1 39. (new) The method of claim 35 further comprising
2 producing the grid by punching a piece of material with robotic
3 punching apparatus.

1 40. (new) The method of claim 35 wherein automated movement apparatus
2 moves the frame support from step to step.

1 41. (new) The method of claim 40 wherein automated movement apparatus
2 moves the grid to the cleaning apparatus.

1 42. (new) A vibratory separator comprising
2 screen assembly holding apparatus,
3 vibrating apparatus for imparting vibration to the screen assembly
4 apparatus, and

5 the screen assembly apparatus made by the method of claim 35.

1 43. (new) The vibratory separator of claim 42 wherein
2 the vibratory separator is a shale shaker for treating drilling
3 material with drilling fluid and entrained solids, and
4 the liquid passable through the first screening material and through
5 the second screening material includes drilling fluid.

1 44. (new) A method for treating fluid with a vibratory separator, the method
2 comprising

3 introducing the fluid to the vibratory separator, the vibratory
4 separator comprising screen assembly holding apparatus, vibrating apparatus
5 for imparting vibration to the screen assembly apparatus, and the screen
6 assembly apparatus made by the method of claim 35, and

7 processing the fluid with the vibratory separator.

1 45. (new) The method of claim 44 wherein

2 the vibratory separator is a shale shaker for treating drilling
3 material with drilling fluid and entrained solids, and

4 the liquid passable through the first screening material and through
5 the second screening material includes drilling fluid.